

**FAG****1220-K-M-C3**

Self-aligning ball bearing

Self-aligning ball bearing 12..-K-M, tapered bore taper 1:12, solid brass cage

Technical information



Your current product variant

Bore type	K	Tapered, taper 1:12
Sealing	Without	Not sealed
Cage	M	Solid brass cage, ball guided
Tolerance class	PN	Normal (ISO 492:2023)
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	34 mm	Width
C_r	70.000 N	Basic dynamic load rating, radial
C_{0r}	29.500 N	Basic static load rating, radial
C_{ur}	1.590 N	Fatigue load limit, radial
n_G	6.000 1/min	Limiting speed
n_{gr}	4.500 1/min	Reference speed
$\approx m$	3,833 kg	Weight



Mounting dimensions

$d_{a \min}$	112 mm	Minimum diameter shaft shoulder
$d_{a \max}$	124 mm	Maximum diameter shaft shoulder
$D_{a \max}$	168 mm	Maximum diameter of housing shoulder
$d_{b \min}$	106 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	7 mm	Minimum cavity width of the sleeve
$r_{a \max}$	2,1 mm	Maximum fillet radius

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	155,2 mm	Shoulder diameter outer ring
d_1	127,3 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	150 °C	Operating temperature max.

Calculation factors

e	0,18	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,58	Dynamic axial load factor
Y_2	5,53	Dynamic axial load factor
Y_0	3,75	Static axial load factor

Additional information

H220

Adapter sleeve



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment